PART B - ISSUE FEE (S) TRANSMITTAL

Complete and mail this form, together with applicable fees, to:

Box ISSUE FEE

Assistant Commissioner for Patents Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address. and/or (b) indicating a separate FEE ADDRESS for maintenance fee notifications

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1).

Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s). Transmittal. This certificate cannot be used for any other accompanying papers. Each

AUG 0 7 2008

REED SMITH LLP **SUITE 1400** 3110 FAIRVIEW PARK DRIVE FALLS CHURCH, VA 22042

Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate

Certificate of Mailing

I hereby certify that this Issue Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelop addressed to the Box Issue Fee address on the date indicated below.

(Depositor's name) (Signature)

(Date) APPLICATION NO FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO CONFIRMATION NO 10/522,241 10/5/2005 Satoshi Sugahara HIRA.0178 1606

TITLE OF INVENTION: A SPIN TRANSISTOR BASED ON THE SPIN-FILTER EFFECT AND A NON-VOLATILE MEMORY USING SPIN **TRANSISTORS**

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1,440	\$300	\$1,740	8/12/2008

EXAMINER ART UNIT CLASS - SUBCLASS

VALENTINE, JAMI M 2815 257-421000

- (37 CFR §1.363). Use of PTO Change of correspondence address or indication of □Fee Address* form(s) and Customer Number are recommended, but not required.
 - ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122)
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached.
- 2. For printing on the patent front page, list (1)
- the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (have as a member a registered
- attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed
- I Reed Smith LLP
- 2. Stanley P. Fisher, Esq.
- 3. Juan Carlos A. Marquez, Esq.

ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Japan Science and Technology Agency

3

Saitama, Japan

Please check the appropriate assignee category (will not be printed on the patent) individual The following fees are enclosed: 図 Corporation or private group entity 4b. Payment of Fee(s):

Issue fee

Publication Fee

Advance Order - # of Copies:

A check in the amount of the fee(s) is enclosed.

Payment by credit card. Form PTO-2038 is attached.

The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 08-1480 (enclose an extra copy of this form)

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee and Publication Fee (if any) to the application identified abo

(Authorized Signature)

(Date) August 7,2008

nley P. Fisher Reg. No.: 24,344 Reg. No. 34,072 NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from a registered patent attorney or agenty or the assignee or other party in interest as show Trademark Office accepted from anyone other than the applicant; a interest as shown by the records of the Patent and

rden Hour Statement; This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee,

Assistant Commissioner for Patents, Washington, D.C. 2023 1
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

08/08/2008 DEMMANU2 00000013 10522241

01 FC:1501

1440.00 OP 300.00 OP

02 FC:1504 03 FC:8001

9.00 OP

Page 2 of 3

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTOL-85 (Rev.07-01) Approved for use through 01/31/2004. OMB 0651-0033



PART B - ISSUE FEE (S) TRANSMITTAL

Complete mail this form, together with applicable fees, to:

Box ISSUE FEE
Assistant Commissioner for Patents
Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate FEE ADDRESS for maintenance fee notifications

correspondence address; and/or (b) indicating a separate FEE ADDRESS for maintenance fee notifications CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

REED SMITH LLP SUITE 1400 3110 FAIRVIEW PARK DRIVE FALLS CHURCH VA 22042 Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate

Certificate of Mailing

3110 FAIRVIEW PARK DRIVE FALLS CHURCH, VA 22042							I hereby certify that this Issue Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelop addressed to the Box Issue Fee address on the date indicated below.						
											(Depositor's name)		
											(Signature)		
						(Date)							
APPLICATION NO FILIN		NG DATE FIR:		FIRST NAMEE	TIRST NAMED INVENTOR		ATTORNEY DOCKET NO.		1	CONFIRMATION NO.			
10/522,241 10/5/2				_	HIRA.0178				1606				
TITLE OF INVENTION: A SPIN TRANSISTOR BASED ON THE SPIN-FILTER EFFECT AND A NON-VOLATILE MEMORY USING SPIN TRANSISTORS													
APPLN, TYPE	SMALL E	ALL ENTITY ISSUE FEE			PUBLICATION FEE		TOTAL	TOTAL FEE(S) DUE DATE D		:	7		
nonprovisional	NO	\$1,440		\$300		\$1,74	\$1,740 8/		8/12/2008				
EXAMINER			ART UNIT	CLASS - S	SUBCLASS								
VALENTINE, JAM	II M		2815	257-42	21000		,						
1. Change of correspondence address or indication of □Fee Address" (37 CFR §1.363). Use of PTO a form(s) and Customer Number are recommended, but not required. □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) single firm							nting on the patent front page, list (1) of up to 3 registered patent attorneys 1 <u>Reed Smith LLP</u> OR, alternatively, (2) the name of a n (have as a member a registered						
THE Address of the State of the Address of the Address of the State of						registered p	or agent) and the names of up to 2 patent attorneys or agents. If no sted, no name will be printed 2. Stanley P. Fisher, Esq. 3. Juan Carlos A. Marquez, Esq.						
3. ASSIGNEE NAME AN	ND RESIDEN	CE DATA TO BE PI	UNTED ON THE	E PATENT (p	orint or type)								
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.													
(A) NAME OF ASSIGNEE								(B) RESIDENCE: (CITY and STATE OR COUNTRY)					
Japan Science and Technology Agency						Saitama, Japan							
Please check the appro		e category (will not b	e printed on the p	patent) 🗆 ind	ividual 🗵	Corporation or			government				
4a. The following fees are	e enclosed:					4b. Paym	nent of Fe	ee(s):					
☑ Issue fee ☑ Publication Fee						⊠ A che	neck in the amount of the fee(s) is enclosed.						
					□ Paym	ment by credit card. Form PTO-2038 is attached.							
						credi extra	the Commissioner is hereby authorized by charge the required fee(s), or redit any overpayment, to Deposit Account Number 08-1480 (enclose an extra copy of this form).						
The COMMISSIONER OF P	ATENTS AN				ee and Publicati	on Fee (if any) t	to the applic	ation identified abov	re.				
(Authorized Signature) Stanley P. Fisher Reg. No.: NOTE: The Issue Fee and Puregistered patent attorney or a Trademark Office	blication Fee (if requiped) will not.	Juan Conscrepted from infinterest as sho	A. Marquez anyone other	Reg. No. 34,077 than the applicatords of the Pater	nt; a							

TRANSMIT THIS FORM WITH FEE(S)
Page 2 of 3

PTOL-85 (Rev.07-01) Approved for use through 01/31/2004. OMB 0651-0033

displays a valid OMB control number

Burden Hour Statement This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE